

Page 1

Tuesday, September 28, 2010 1:57:22 PM

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-				

D205-634-041

Accept



Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

9/28/2010

QC:

Start Qty: 1.00 **Required Date: 10/12/2010**

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Req'd Qty: 1.00

Tooling:

Date: SPC (Y/N):

Date:

Run

Þ

Stop

Start

Stop



Sequence ID/ Work Center ID Operation Description

Set Up/ Run Hours Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Number

Insp. Stamp

Draw Nbr

Revision Nbr

D2580 Rev D

100

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002

Date:

Qty

110

CNC Bend 1

CNC Delta 100 Bender

0.00

BENDING MACHINE - SKIDTUBES

Memo

0.00

1-Bend as per program D2580.C on CNC Bender and Folio 16

2-Cut tubes as per Dwg. D2580

3- scribe batch# in aft end of tube

Dart Aerospace

W/O:			WC	RK ORDER CHANG	ES		5		
DATE	STEP	PROCEDURE CHANGE				Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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	Re	esolution:	Disposition	Disposition: QA: N/C			Date: _	Date:	
NCR:		*	WORK ORDI	R NON-CONFORMA	ANCE (NCR)			
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Work Order ID 62375

Required Date: 10/12/2010

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Page 2

Item ID:

D205-634-041

Accept

Setup Start

Stop

Stop

1 - BE10/10/06



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

9/28/2010

Start Qty: 1.00

Req'd Qty: 1.00

Operation

Description

Cust Item ID: Customer:

Reference:

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Process Plan:

Date:_

Tooling:

Date:

Run Start

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Tool ID

Tool # Plan Accept

Qty

Code

Reject Qty

Reject Insp. Number Stamp

Work Center ID 120

Sequence ID/

Skidtubes

Skidtubes

Memo

0.00

0.00

1- Deburr ends and remove marks bending marks

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

130

0.00

0.00

Quality Control

Memo

QC5- Inspect part completeness to step on W/O

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W/O:		1	WORK (ORDER CHANGI	EŞ.					25.
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Work Order ID 62375

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Page	3
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Item ID:

D205-634-041

Revision ID:

Item Name:

Replacement Skidtube

Start Date:

9/28/2010

Start Qty: 1.00

Required Date: 10/12/2010

Req'd Qty: 1.00





Setup Start

Stop



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan: Date:

Date:_____

Tooling: Date:

Run

Stop

Start



QC:

Sequence ID/ Operation Work Center ID

Description

Set Up/ **Run Hours**

SPC (Y/N):

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Skidtubes

Skidtubes

Memo

0.00

0.00

1-Weld step D2576 as per Dwg. D2580 and QSI 00

A/R□□□ Aluminum Rod

BE 10/10/06

Date:

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8" drill, weld other side, pass 3/8"

A/R□□□ Aluminum Rod

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64", adjust stopper not to hit web Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

W/O:		WORK ORDER CHANGES										
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Work Order ID 62375

Required Date: 10/12/2010

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Item ID:

D205-634-041

Accept

Setup Start

Stop

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

9/28/2010

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approval	~ •
ADDFOVAL	N:

Process Plan: ____ Date:

Memo

Tooling:

Date:

Run



QC:

Date:_____

SPC (Y/N):

Set Up/

Date:

Tool ID

Tool # Plan

Code

Accept Reject Qty Qty

Reject Number

Insp. Stamp

Sequence ID/ Work Center ID

150



QC Quality Control

Operation

Description

Run Hours

160



Quality Control

QC5- Inspect part completeness to step on W/O

QC10- Inspect visual per QSI004- ground welds

0.00

Siolula

170

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0.00 fol 10-10-13

0.00

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd cap out of solution.

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W/O:			W	ORK ORDER CHAN	GES					
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Work Order ID 62375

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Item ID:

D205-634-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

9/28/2010

Start Qty: 1.00

Required Date: 10/12/2010

Reg'd Qty: 1.00



Cust Item ID: Customer:

Date:

Tool # Plan

Code

Reference:

Approvals:

Process Plan:

Date:_____

Date:

Tooling:

SPC (Y/N):

Date:

Run

Stop

Reject

Qty

Start



Insp.

Stamp

Sequence ID/

Work Center ID

180

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

M1152011

Memo

START TIME:

OVEN TEMPERATURE

FINISH TIME:

Set Up/ Run Hours

0.00

Tool ID

Accept

Qty

Reject

Number

190

Quality Control

QC3- Inspect Part Finish

0.00 -> Ml 10/10/13

Memo

0.00

QC

W/O:			W	ORK ORDER CHANG	ES				
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Required Date: 10/12/2010

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Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

9/28/2010

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

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Process Plan:

Date:

Tooling:

Date:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Stop

Reject Number Stamp

Insp.

Sequence ID/ **Work Center ID**

200



HandFinish

Hand Finishing

Operation Description

Memo

Set Up/ **Run Hours**

0.00

1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of

Sikaflex on insert holes before installing wearplates A/R DDD Sikaflex-291 DANISIADDD

Sikaflex expire date: 11/2

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580

__3-Inspect for foreign object per QSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with

Sikaflex. Clean excess adhesive

A/R \square \square \square Sikaflex-291 \triangle /(1/5/(\square Sikaflex expire date: 11 0

5-Wing Walk as per Dwg D2580 and QSI 005 4.4 Batch: M((SOZ)

W/O:			WC	RK ORDER CHANG	ES	 			
DATE	STEP	PR	PROCEDURE CHANGE			Date	e Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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Work Order ID 62375

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Item ID:

D205-634-041

Accept



Setup Start

Stop

Stop



Revision ID:

Item Name: Replacement Skidtube

Start Date:

9/28/2010

Start Qty: 1.00

Required Date: 10/12/2010 Req'd Qty: 1.00

Operation

Description



Cust Item ID:

Customer:

Reference:

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Process Plan:

Date:_____

Tooling:

Date:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Tool # Plan

Code

Accept Qty

(40)

Reject Qty

Reject Stamp Number

Insp.

Sequence ID/ **Work Center ID**

210



Quality Control

Foreign objects per OSI 024

QC5- Inspect part completeness to step on W/O

Memo

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

220

Packaging

Packaging

Memo

0.00

0.00

Packaging

Identify and pack for shipping as per PPPD205-634-041

Location:

PPP Rev:

230

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

W/O:			V	ORK ORDER CHANG	GES					
DATE	STEP	PROC	EDURE CH	IANGE	E	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Picklist Print

Tuesday, September 28, 2010 1:57:26 PM

Work Order ID: 62375

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 9/28/2010

Required Date: 10/12/2010

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:N \square 02.08.28 \square FP was QC5 in Step 27; Added QC5 to Step 30 \square KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09 SS Wearplates & Gaskets JLM

Item Name Ite	eplacement em ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2580-1		Manufactured	No			110	Each	9.0000	1 	1			

205 Skidtube bent detail

Location	Loc Qty	Loc Code
LG	8	
61805	2	
61867	2	
62047	2	
62048	2	
ST046	1	
59856	1	

Manufactured No 140 Each 72.0000

Locat	<u>tion</u>	Loc Qty	Loc Code
LG		72	
٠	46661	24	
	52215	48	

BE 10-10-06

Step (maching detail)

D2576-3

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Picklist Print Tuesday, September 28, 2010 1:57:26 PM Work Order ID: 62375 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 9/28/2010 **Required Date:** 10/12/2010 Start Qty: 1.00 Required Qty: 1.00 D2579 Manufactured No 140 Each 224.0000 20 20 Crossbolt Spacer Location Loc Qty Loc Code LG 224 57052 5 57348 58433 2 59113 7 20 BE 10/10/06 60845 37 61199 169 D2855 Manufactured No 200 65.0000 Each Cap Location -Loc Qty Loc Code FP6 <u>,</u>,1 56613 ST026 64 50513 50770 28 51539 2 53791 33 AN3-5A Purchased No 200 Each 1,505.000 10/10/13 Bolt

Dart Ae	rospace	Ltd					ı			
W/O:			W	ORK ORDER CHANG	ES				·	
DATE	STEP	PROC	CEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Tuesday, September 28, 2010 1:57:26 PM

Work Order ID: 62375 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 9/28/2010 Required Date: 10/12/2010 Start Qty: 1.00 Required Qty: 1.00 AN960JD10L NAS1149D0332J Purchased No 200 Each 0.0000 1410985] Washer ALS7-1032-130 Purchased No 200 Each 1,796.000 50 50 Insert Location Loc Oty Loc Code FP 779 M114723 115079 779 ST282 1017 113238 17 115502 500 115581 500 AN3C4A Purchased No 200 2,108.000 Each 50 50 BOLT Location Loc Qty Loc Code ST245 38 109061 11 110139 27 ST303 42 115438 42 ST350 2028 114108 14 114416 12 114523 2 115300

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Dart Aerospace	Ltd
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Picklist Print

Tuesday, September 28, 2010 1:57:26 PM

Work Order ID: 62375 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 9/28/2010 **Required Date: 10/12/2010** Start Qty: 1.00 Required Qty: 1.00 NAS1149C0332 R. AN960C10L Purchased No 200 29.0000 Each 50 50 M 115816 washer Loc Oty Location Loc Code ST245 29 107534 29 D3566-13 Manufactured No 200 Each 39.0000 10/10/13 Gasket Location Loc Qty Loc Code FP012 39 59661 5 60209 8 61996 26 D3566-5 Manufactured 200 Each 14.0000 Gasket Location Loc Qty Loc Code FP 14 60869 14 D3566-1 Manufactured No 200 Each 31.0000 Gasket Location Loc Qty Loc Code FP015 31 57715 2 60202 10

6

13

61656

61992

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Picklist Print

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Work Order ID: 62375

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 9/28/2010

Required Date: 10/12/2010

Start Qty: 1.00

Required Qty: 1.00

D3564-11



Wearshoe

D3564-13

Wearshoe

D3564-9 Wearshoe Manufactured

Manufactured

Manufactured

No

No

200

Each

Each

6.0000

Loc Oty Loc Code 1361708 60302 6

200

200

12.0000

Loc Code

Location FP17

Location

FP019

60862

Loc Qty 12 12

Each 23.0000

10/10/13

Location Loc Qty FP 1 55334 1 FP019 22 60236 9 61709 13

Loc Code

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W/O: WORK ORDER CHANGE										
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	R	esolution:	Disposition: C			A: N/C Closed: Date:				
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NC	R)				
DATE	STEP	Description of NC			Section B		cation	Approval	Approval	
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		ion C	Chief Eng	QC Inspector	
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Picklist Print

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Work Order ID: 62375

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 9/28/2010

Required Date: 10/12/2010

Start Qty: 1.00

Required Qty: 1.00

D3564-5

Wearshoe

Manufactured No

Manufactured

No

200

Each

14.0000

Location	<u>on</u>	Loc Oty	Loc Code
FG		1	
	34806	1	
FP19		8	
	57525	1	
	58709	1	
	61699	6	
FP-19		5	
	60868	5	
		200 Ea	ch 1,011.000

16 10/10/13

D2594-3

O-Ring, 205 Skidtube

Location		Loc Qty
FP		43
5554	16	19
5819	91	12
593	58	12
fpa		968
61 <u>76</u>	<u>62</u> `	968

Loc Code

11937

W/O:			W	ORK ORDER CHANG	ES				
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Part No	:	PAR #:	Fault Cat	tegory:	_ NCR: Yes	No DQ	A:	_ Date: _	
	R	esolution:	Dispositi	on:	_ QA: N/C C	losed:		Date: _	
NCR:		1	WORK ORI	DER NON-CONFORMA	ANCE (NCI	R)			
DATE	STEP	Description of NC Corrective Action			ion B	Verifi	Verification Appro		Approval
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	ion C	Chief Eng	QC Inspector
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Picklist Print

Tuesday, September 28, 2010 1:57:26 PM

Work Order ID: 62375

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 9/28/2010

Required Date: 10/12/2010

Start Qty: 1.00

Required Qty: 1.00

D2594-1

Plug, 205 Skidtube

Manufactured	N

200

Each

331.0000

16

Location		Loc Qty	Loc Code	
FP		183	_	
•	42807	112	_	
	55002	71	_	
FP14		148		
	58434	15	_	
	59110	13		
,	<u>61932</u>	120		X / þ

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Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DO	A:	_ Date: _			
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NCR:			WORK ORDER NON-CONFORMANCE (NCR)								
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	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sec	tion C	Chief Eng	QC Inspector		
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DESIG	THE SECOND	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED.	APPROVED	DRAWING NO. REV. D
	THE STATE OF THE S	*#	D2580 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	02.27		205 SKIDTUBE ASSEMBLY NTS
Α		96.09.16	NEW ISSUE
В		96.12.02	AS MANUFACTURED
С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
D		07.02.27	CHANGE TO SS WEARPLATES AND

GASKETS, INCLUDE DEO 9124/9183



QTY -041	QTY -045	Part Number	Description
X	-043	D2580-041	SKIDTUBE ASSEMBLY
	Х	D2580-045	SKIDTUBE ASSEMBLY
1	1	D2500-1-190	EXTRUSION
1	1	D2576-3	STEP
20	24	D2579	CROSS BOLT SPACER
16	16	D2594-1	PLUG
16	16	D2594-3	O-RING
1	1	D2596	205 WEB
1	1	D2855	AFT CAP
1	1	D3564-5	WEARSHOE
1	1	D3564-9	WEARSHOE
1	1	D3564-11	WEARSHOE
1	1	D3564-13	WEARSHOE
2	2	D3566-1	GASKET
1	1	D3566-5	GASKET
1	1	D3566-13	GASKET
50	50	ALS7-1032-130	INSERT
	'	or AKS7-1032-130	
		or AKS4-1032-130	
L		or AELS-1032-130	
50	50	AN3C4A	BOLT
2	2	AN3-5A	BOLT
50	50	AN960C10L	WASHER
2	2	AN960JD10L	WASHER

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED CO'
SUBJECT TO AMENDMEN
WITHOUT NOTICE
WORK ORDER
NO. 2323

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

 INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

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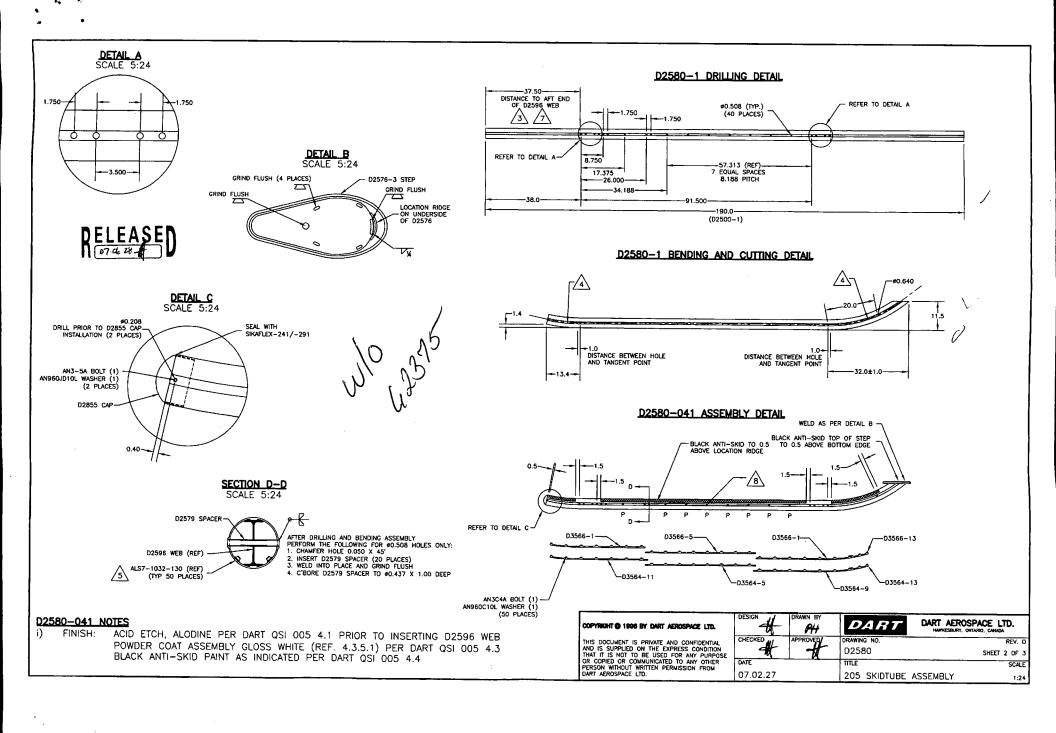
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DATE STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr Approval Chief Eng / Prod Mgr Approval QC Inspect				 				GES	WORK ORDER CHANG	V			Ť	W/O:	
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NOTE: Date & initial all entries

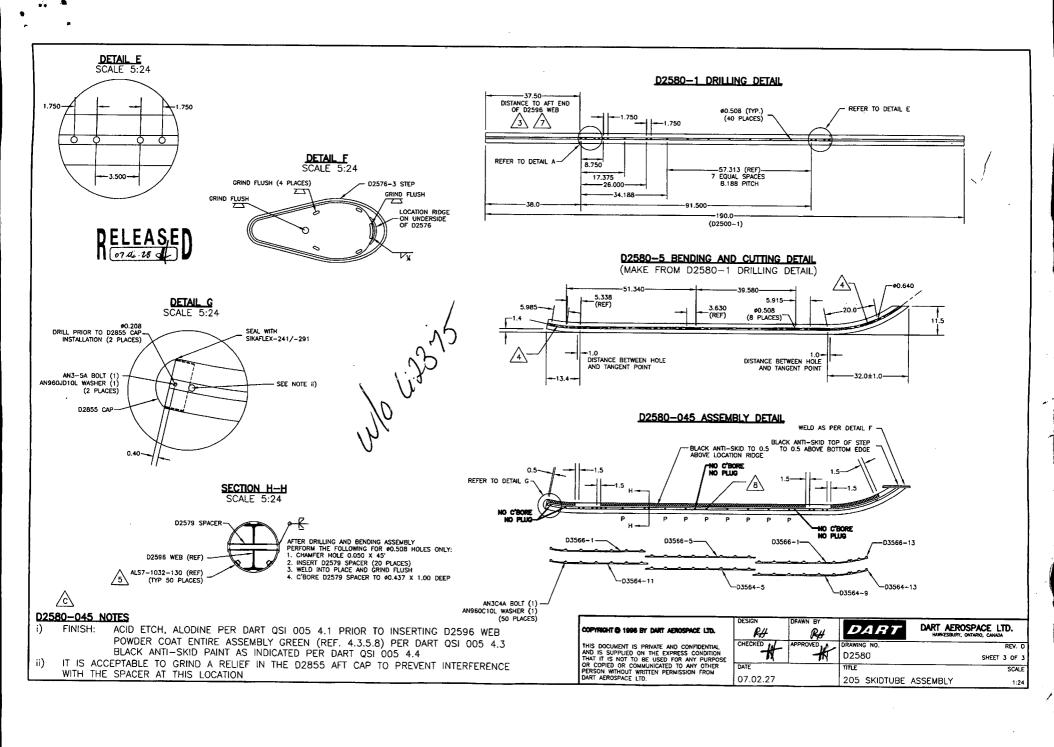
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W/O:			W	ORK ORDER CHANG	ES				***
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NO.240

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barday Elliott	·
Job number: 62176 8	
Part number: D2OS 634 O41	
Description: 205 skid tube	·
Welding Process: Tig[→ Mig[]	
Base materiel: Aluminian	
Current: AC[DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration: <u>UNACCEPTABLE</u>	pass fail] pass fail]
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Dorday Elliott	Date of Test Coupon 10.09.35 Date of Test Coupon 10.09.30

The above named individual is qualified in accordance with AWS D17.1.2001 to weld